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# NOTICE OF ALLOWANCE AND FEE(S) DUE

24628

7590

12/16/2010

Husch Blackwell Sanders, LLP Husch Blackwell Sanders LLP Welsh & Katz 120 S RIVERSIDE PLAZA 22ND FLOOR CHICAGO, IL 60606

EXAMINER				
CAO, PHAT X				
ART UNIT	PAPER NUMBER			

2814

DATE MAILED: 12/16/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582.718	06/12/2006	Dajsuke Kumaki	0553-0505	6557

TITLE OF INVENTION: LIGHT EMITTING DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/16/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notification.	correspondence including ed below or directed of tions.	ng the Patent, advanc herwise in Block 1, b	ee orders and notification by (a) specifying a new co	of m	naintenance fees wi pondence address;	ill be i and/or	mailed to the current (b) indicating a sepa	correspondence address a trate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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Husch Blackwell Sanders, LLP Husch Blackwell Sanders LLP Welsh & Katz 120 S RIVERSIDE PLAZA				I her State addr trans	reby certify that this	s Fee(s	) Transmittal is being	g deposited with the United of class mail in an envelope above, or being facsimile ate indicated below.
22ND FLOOR CHICAGO, IL 6	50606							(Depositor's name)
emenoo, il	30000							(Signature)
								(Date)
APPLICATION NO.	FILING DATE	,	FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/582,718	06/12/2006		Daisuke Kumaki		_		0553-0505	6557
TITLE OF INVENTION	R: LIGHT EMITTING D	EVICE						
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	03/16/2011
EXAM	IINER	ART UNIT	CLASS-SUBCLASS		J			
CAO, F	PHAT X	2814	257-040000					
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.</li> </ol>			(1) the names of u or agents OR, alter (2) the name of a s registered attorney 2 registered patent	2. For printing on the patent front page, list  (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Com GNEE	tified below, no assig pletion of this form is	NOT a substitute for filing (B) RESIDENCE: (C	ne pa g an a	atent. If an assigne assignment. and STATE OR Co	OUNT	RY)	ocument has been filed fo
Please check the appropr	riate assignee category or	r categories (will not b	pe printed on the patent):		Individual 🖵 Co	rporati	on or other private gro	oup entity 🖵 Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Sta	*							
**	ns SMALL ENTITY state		= = = = = = = = = = = = = = = = = = = =				TTY status. See 37 CI	FR 1.27(g)(2). le assignee or other party in
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Authorized Signature					Date			
Typed or printed name			Registration No					
an application. Confiden submitting the complete this form and/or suggest	tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DO	5 U.S.C. 122 and 37 C e USPTO. Time will v orden, should be sent t	FR 1.14. This collection i vary depending upon the i o the Chief Information O	s esti ndiv: ffice	imated to take 12 m idual case. Any cor er. U.S. Patent and 1	ninutes mments Fradem	to complete, including on the amount of tire tark Office, U.S. Depart	by the USPTO to process g gathering, preparing, and ne you require to complete artment of Commerce, P.O for Patents, P.O. Box 1450

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/582,718	06/12/2006	Daisuke Kumaki	0553-0505	6557
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Husch Blackwell	Sanders, LLP	CAO, PHAT X		
	anders LLP Welsh & F	ART UNIT	PAPER NUMBER	
120 S RIVERSIDE	E PLAZA		2814	
22ND FLOOR CHICAGO, IL 606	506		DATE MAILED: 12/16/201	0

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 350 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 350 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/582,718	KUMAKI ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Phat X. Cao	2814			
	Phat X. Cao	2814			
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commits IGHTS. This application is	n this application. If not included unication will be mailed in due cours			
1. ☑ This communication is responsive to <u>12/2/10</u> .					
2. X The allowed claim(s) is/are 1,2,6,7,12,13 and 15.					
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority unall All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>		or (f).			
2. ☐ Certified copies of the priority documents have		on No			
Sopies of the certified copies of the priority do	• •		om the		
International Bureau (PCT Rule 17.2(a)).	caments have been receive	a in this national stage application in	OIII tilo		
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requiren	nents		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			E OF		
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.				
(a) $\square$ including changes required by the Notice of Draftspers	son's Patent Drawing Revie	w ( PTO-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	<i>:</i>				
<ul><li>(b) ☐ including changes required by the attached Examiner'</li><li>Paper No./Mail Date</li></ul>	s Amendment / Comment o	r in the Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			) of		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			he		
Attachment(s)	5 Notice of I	oformal Potant Application			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		nformal Patent Application Summary (PTO-413),			
<ol> <li>Information Disclosure Statements (PTO/SB/08),</li> </ol>	Paper No.	/Mail Date : Amendment/Comment			
Paper No./Mail Date <u>12/2/10</u>					
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		8. X Examiner's Statement of Reasons for Allowance			
	9.  Other	<u></u>			
/Phat X. Cao/					
Primary Examiner, Art Unit 2814					

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Art Unit: 2814

## **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance: the prior art of record neither anticipates nor renders obvious all of the limitations recited in the base claims. Specifically, a light emitting device comprising:

- a laminated body including a layer containing a light emitting substance over and in direct contact with the first electrode, a layer having an acceptor level over and in direct contact with the laminated body, a layer having a donor level over and in direct contact with the layer having the acceptor level, and a second electrode over and in direct contact with the layer having the donor level, wherein the layer having the acceptor level comprises both a material with a hole transporting property and a material with an electron accepting property, and the layer having the donor level comprises both a material with an electron transporting property and a material with an electron donating property (claim 1).
- a laminated body including a layer containing a light emitting substance over and in direct contact with the first electrode, a first layer containing a first substance of which a hole mobility is higher than an electron mobility and a second substance that can accept an electron from the first substance over and in direct contact with the laminated body, a second layer containing a third substance of which an electron mobility is higher than a hole mobility and a forth substance that can donate an electron to the third substance

Page 3

over and in direct contact with the first layer, and a second electrode in direct contact with the second layer (claim 6).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phat X. Cao whose telephone number is (571)272-1703. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571)272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Art Unit: 2814

/P. X. C./ Primary Examiner, Art Unit 2814 /Phat X. Cao/ Primary Examiner, Art Unit 2814